King Tao Jason **Ng**

Profile Summary

Senior Data Scientist and Analytics Leader with 10+ years' experience delivering analytics, machine learning, and market surveillance solutions within financial regulation. Proven track record leading cross-functional teams, deploying NLP and detection systems, and translating complex regulatory requirements into scalable data platforms.

Contact details

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Personal information

Citizenship: **Australian**
Languages: **English**, **Chinese**

Core Competencies

- Advanced Analytics & Market Surveillance
- Machine Learning & NLP
- Data Governance
- Data Platform Strategy
- Stakeholder & Executive Engagement

Experience

Senior Data Scientist   Jul 2022 - Present
Data Analytics and AI, ASIC

◇ Led end-to-end delivery of ML and NLP initiatives, including the Licensing ML Proof of Concept, Knowledge Management Metadata Extraction, and Lessons Learned Lite Review.

◇ Delivered Lessons Learned Lite Review and nominated for the *Australia Day Achievement Award*.

Senior Data Scientist (Secondment)   Sep 2025 - Feb 2026
Superannuation & Life Insurance, ASIC

◇ Implemented a red-flag detection system for superannuation funds, strengthening risk oversight and earning high praise from the Superannuation & Life Insurance team.

Sessional Teaching Academic   Feb 2022 - Jun 2022
School of Computing, Macquarie University

◇ Led and tutored a coursework for Document Processing and Semantic Technologies (COMP3220), guiding students through complex concepts and practical applications.

Senior Analytics Platform Owner   Jul 2021 - Jul 2022
Chief Data and Analytics Office, ASIC

◇ Directed the promotion and management of Databricks, RStudio Servers, Python Servers, and the Data Science Lab, designing onboarding strategies, workflows, and best practices to boost efficiency and collaboration among data analysts.

Data Scientist   Oct 2019 - Jul 2021
Chief Data and Analytics Office, ASIC

◇ Developed and deployed NLP Prospectuses, leveraging NLP to enhance prospectus analysis and provide actionable insights to the Corporation team.

Data Scientist   Aug 2017 - Jun 2019
School of Computer Science, University of Sydney

◇ Designed and developed a Researcher Collaboration Recommendation System using Python and D3.js, enabling data-driven networking through interactive visualizations.

◇ Invited to present at the *16th Australasian Data Mining Conference*.

Analyst   Jul 2016 - Oct 2019
Market Infrastructure, ASIC

◇ Proposed and implemented Wash Trade Detection analytics using KDB+/Q, strengthening market surveillance and regulatory compliance.

◇ Received excellent feedback from senior management.

Market Technology Analyst   Jan 2013 - Jul 2016
Market & Participant Supervision, ASIC

◇ Led the development and launch of the *Market Analysis and Intelligence Surveillance System*, enhancing market integrity.

◇ Earned the *Australia Day Achievement Award* for outstanding accomplishment.

Intranet Programmer   Oct 2011 - Dec 2011
Information and Communications Technology, Scots College

◇ Oversaw the maintenance and management of IBM DB2, ensuring database reliability, performance, and security.

Domain Analyst   Mar 2011 - May 2011
Wagering Technology, Tabcorp Holdings Limited

◇ Led and managed requirements gathering for the Customer Loyalty project, ensuring alignment with business objectives and stakeholder needs.

Software Engineer   Jul 2008 - Mar 2011
Studio Development, Aristocrat Technologies Australia

◇ Designed and developed gaming applications using C and C++, creating engaging user experiences.

◇ Successfully developed the game *Peeking Duck*, which received highly positive feedback from gaming floors.

Graduate Software Engineer   Jul 2007 - Jul 2008
Platform Development, Aristocrat Technologies Australia

◇ Designed and developed networking protocols for casino management systems using C and C++, ensuring secure and efficient communication across the platforms.

◇ Successfully proposed a third-party licensing initiative to the executive team, leading to the development of *JAW* gaming the following year.

Graduate Test Engineer   Jan 2007 - Jul 2007
Software Integrity Testing, Aristocrat Technologies Australia

◇ Developed comprehensive test plans and performed unit and integration testing to ensure high-quality, reliable software delivery.

Education

Master of Research, *Macquarie University*   Jul 2021 - Oct 2023

◇ Identifying Causal Directions from Text: Unsupervised Learning using Bayesian Framework

Master of Data Science, *University of Sydney*   Mar 2016 - Jul 2019

◇ Academic Capability Mapping

Master of Economics, *University of Sydney*   Mar 2008 - Jul 2012

Master of Information Technology, *UNSW*   Jul 2005 - Dec 2007

Bachelor of Science, *UNSW*   Jul 2001 - Mar 2005

Publications

Exploring Causal Directions through Word Occurrences: Semi-supervised Bayesian Classification Framework, ***King Tao Jason Ng** and Diego Mollá. The 21st Annual Workshop of the Australasian Language Technology Association, Melbourne, VIC, Australia, November 29 - December 1, 2023*

Hierarchical Word Mover Distance for Collaboration Recommender System, *Chao Sun,* ***King Tao Jason Ng***, *Philip Henville and Roman Marchant. The 16th Australasian Data Mining Conference, AusDM 2018, Bathurst, NSW, Australia, November 28 - 30, 2018, Revised Selected Papers*